PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS/CPS (COUNTDOWN PEDESTRIAN SIGNALS) AT THE INTERSECTIONS OF US 1 BUSINESS (BALTIMORE PIKE) AND MD 924 (BOND STREET/KENMORE AVENUE), MD 924 (BOND STREET) AND OFFICE STREET, MD 924 (BOND STREET) AND CHURCHVILLE ROAD AND MD 924 (BOND STREET) AND PENNSYLVANIA AVENUE IN HARFORD COUNTY, MARYLAND.

U.S. 1 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

MD 924 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE EXISTING INTERSECTION OPERATION WILL REMAIN THE SAME AT EACH INTERSECTION.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 924 (BOND STREET) AND PENNSYLVANIA AVENUE TS 1477 M

1. MD 924 (BOND STREET) AND PENNSYLVANIA AVENUE - NORTH LEG
   STREETS AT 90 DEGREES
   WAIT: "WAIT TO CROSS BOND AT PENNSYLVANIA, WAIT" *
   WALK: RAPID TICK
2. MD 924 (BOND STREET) AND PENNSYLVANIA AVENUE - SOUTH LEG TS 1477M
   INTERSECTION WITH ANGLED CROSSING
   WAIT: "WAIT TO CROSS BOND AT PENNSYLVANIA. CROSSWALK ANGLES LEFT, WAIT." **
   WALK: RAPID TICK
3. PENNSYLVANIA AVENUE AND MD 924 (BOND STREET) - EAST LEG TS 1477M
   STREETS AT 90 DEGREES
   WAIT: "WAIT TO CROSS PENNSLYVANIA AT BOND, WAIT" *
   WALK: RAPID TICK
4. PENNSYLVANIA AVENUE AND MD 924 (BOND STREET) - WEST LEG TS 1477M
   INTERSECTION WITH ANGLED CROSSING
   WAIT: "WAIT TO CROSS PENNSYLVANIA AT BOND. CROSSWALK ANGLES RIGHT, WAIT." **
   WALK: RAPID TICK

MD 924 (BOND STREET) AND OFFICE STREET

1. MD 924 (BOND STREET) AND OFFICE STREET - NORTH LEG TS 1478 E
   STREETS AT 90 DEGREES
   WAIT: "WAIT TO CROSS BOND AT OFFICE, WAIT" *
   WALK: RAPID TICK
2. OFFICE STREET AND MD 924 (BOND STREET) - EAST LEG TS 1478E
   STREETS AT 90 DEGREES
   WAIT: "WAIT TO CROSS OFFICE AT BOND, WAIT" *
   WALK: RAPID TICK

MD 924 (BOND STREET) AND MD 22/MD 922E (CHURCHVILLE ROAD) TS 1473 N

1. MD 22/MD 922E (CHURCHVILLE ROAD) AND MD 924 (BOND STREET) - EAST LEG
   INTERSECTION WITH ANGLED CROSSING
   WAIT: "WAIT TO CROSS CROSS CHURCHVILLE AT BOND. CROSSWALK ANGLES LEFT, WAIT." **
   WALK: RAPID TICK
2. MD 22/MD 922E (CHURCHVILLE ROAD) AND MD 924 (BOND STREET) - WEST LEG TS 1473N
   STREETS AT 90 DEGREES
   WAIT: "WAIT TO CROSS CHURCHVILLE AT BOND, WAIT." *
   WALK: RAPID TICK
3. MD 924 (BOND STREET) AND MD 22/MD 922E (CHURCHVILLE ROAD) - NORTH LEG TS 1473 N
   STREETS AT 90 DEGREES
   WAIT: "WAIT TO CROSS BOND AT CHURCHVILLE, WAIT." *
   WALK: RAPID TICK
4. MD 924 (BOND STREET) AND MD 22/MD 922E (CHURCHVILLE ROAD) - SOUTH LEG TS 1473N
   STREETS AT 90 DEGREES
   WAIT: "WAIT TO CROSS BOND AT CHURCHVILLE, WAIT." *
   WALK: RAPID TICK

US 1 BUSINESS AND MD 924 (BOND STREET/KENMORE AVENUE)

1. US 1 BUSINESS (BALTIMORE PIKE) AND MD 924 (BOND STREET) - SOUTH LEG TS 1472
   INTERSECTION WITH ANGLED CROSSING
   WAIT: "WAIT TO CROSS BALTIMORE AT BOND AND KENMORE. CROSSWALK ANGLES RIGHT, WAIT." **
   WALK: RAPID TICK
2. US 1 BUSINESS (BALTIMORE PIKE) AND MD 924 (BOND STREET/KENMORE AVENUE) - NORTH LEG TS 1472
   STREETS AT 90 DEGREES
   WAIT: "WAIT TO CROSS BALTIMORE AT BOND AND KENMORE, WAIT" *
   WALK: RAPID TICK
3. MD 924 (BOND STREET/KENMORE AVENUE) AND US 1 BUSINESS (BALTIMORE PIKE) - WEST LEG TS 1472
   STREETS AT 90 DEGREES
   WAIT: "WAIT TO CROSS BOND AT BALTIMORE, WAIT." *
   WALK: RAPID TICK
4. MD 924 (BOND STREET/KENMORE AVENUE) AND US 1 BUSINESS (BALTIMORE PIKE) - EAST LEG
   STREETS AT 90 DEGREES
   WAIT: "WAIT TO CROSS KENMORE AT BALTIMORE, WAIT" *
   WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

MD 924 (BOND STREET) AND PENNSYLVANIA AVENUE

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

MD 924 (BOND STREET) AND OFFICE STREET

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

MD 924 (BOND STREET) AND CHURCHVILLE ROAD

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

US 1 BUSINESS (BALTIMORE PIKE) MD 924 (BOND STREET/KENMORE AVENUE)

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

BY: sbloss

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODES	QUANTITY	DESCRIPTION
973023	28 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT) :
		- 12 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS BOND STREET"
		- 4 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS PENNSYLVANIA AVE"
		- 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS OFFICE STREET"
		- 4 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS CHURCHVILLE ROAD"
		- 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS KENMORE AVENUE"
		- 4 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS BALTIMORE PIKE"

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.02-01 (SHOULDER WORK)

STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 229-2381

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 229-2361

MR. MIKE PASQUARIELLO
DISTRICT UTILITY ENGINEER
PHONE: (410) 229-2341

MR. ROBERT SYNDER
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

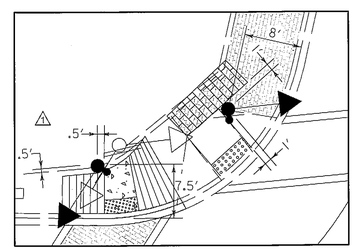
EQUIPMENT LIST "B"

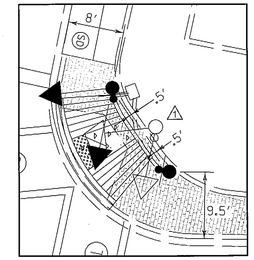
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

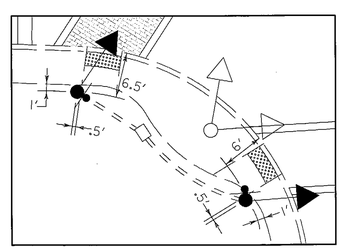
CATEGORY CODES	QUANTITY	DESCRIPTION
203030	21 C.Y.	TEST PIT EXCAVATION
655105	410 S.F.	5 IN. CONCRETE SIDEWALK
801004	25 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
801104	14 L.F.	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
802501	700 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	510 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
811001	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	28 S.F.	INSTALL OVERHEAD SIGN
813023	6 S.F.	RELOCATE EXISTING GROUND MOUNTED SIGNS
818004	25 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
860292	16 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	4500 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	3115 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
800000	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
800000	25 EACH	16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	28 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	4 EACH	2-WIRE CENTRAL CONTROL UNIT
800000	225 S.F.	REMOVE AND RESET BRICK PAVERS
800000	3 EACH	3" BLIND COUP WELDED & GALVANIZED

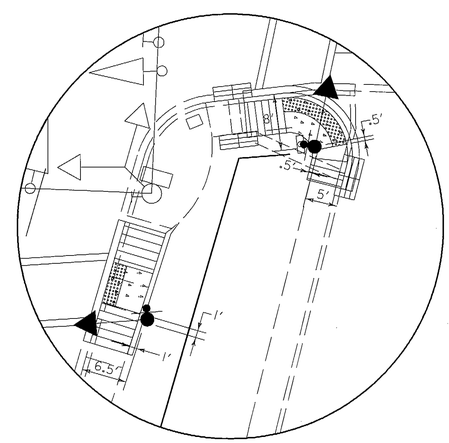
DIMENSION DIAGRAM - US 1 BUSINESS and MD 924

SCALE: 1"=10'









△1 ADDENDUM NO. 1
7/18/2011

WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 924 Intersections

Bel Air, Maryland

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 6/15/2011 CONTRACT NO. HA3885177

DESIGNED BY S. Bloss
DRAWN BY S. Bloss
CHECKED BY N. Leary
F.A.P. NO.

COUNTY Harford
LOGMILE 12800102.58
TIMS NO. K859
TOD NO.

TS NO. 1472 O | DRAWING TSP-7 OF 7 | SHEET NO. 162C OF 162

PLOTTED: Wednesday, September 07, 2011 AT 02:41 PM
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TS - 1477
TS - 1472